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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/605,916	11/06/2003	Hung-Ping Chen	10939-US-PA	2915

31561   7590   03/15/2006

JIANQ CHYUN INTELLECTUAL PROPERTY OFFICE
7 FLOOR-1, NO. 100
ROOSEVELT ROAD, SECTION 2
TAIPEI,   100
TAIWAN

EXAMINER
TRAN, VINCENT HUY

ART UNIT	PAPER NUMBER
2115	

DATE MAILED: 03/15/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
Office Action Summary	10/605,916	CHEN, HUNG-PING
	Examiner	Art Unit	
	Vincent T. Tran	2115	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>3</u> MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on <u>06 November 2003</u>.

2a)☐ This action is **FINAL**.   2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) <u>1-14</u> is/are pending in the application.

    4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) <u>1-14</u> is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on <u>06 November 2003</u> is/are: a)☒ accepted or b)☐ objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a)☒ All   b)☐ Some * c)☐ None of:

      1.☐ Certified copies of the priority documents have been received.

      2.☐ Certified copies of the priority documents have been received in Application No. _____.

      3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

    * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1)☒ Notice of References Cited (PTO-892)

2)☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3)☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
    Paper No(s)/Mail Date _____.

4)☐ Interview Summary (PTO-413)
    Paper No(s)/Mail Date. _____ .

5)☐ Notice of Informal Patent Application (PTO-152)

6)☐ Other: _____.

DETAILED ACTION

1.   This Office Action is in response to the application filed on November 6, 2003.

2.   Claims 1-14 are pending.

Claim Rejections - 35 USC § 103

3.   The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4.   Claims 1-3, 5-6, 8-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ding

U.S. Patent 6,430,663 in view of Raghavan et al. U.S. Patent 6,931,522.

5.   As per claim 1, Ding discloses a selectable booting operation method by a BIOS with

multi-partition in disk which comprising a plurality of partitions [col. 2 lines 18-22], comprising:

turning on a power of a computer [inherent];

initializing a plurality of hardware components in the computer [inherent];

executing an interrupt service program [inherent];

reading a MRB in the disk [col. 4 lines 52-65; col. 5 lines 59-65];

setting a multi-partition boot selection flag [212 fig. 3A; col. 2 lines 51-56; col. 6 lines

53-67];

selecting one of the partitions by using the multi-partition boot selection flag; [from col.

6 line 65 to col. 7 line 2]; and

reading a boot sector in the one of the partitions to boot the computer [col. 7 lines 5-10],.

However, Ding does not explicitly teach determining whether the one of the partitions is bootable or not.

Raghavan et al. teach another method for booting a computer system to a know state at system start-up wherein the system comprising a hard disk with at least two partition, each containing a different or may be the same copy of a system image [col. 2 lines 38-40; col. 9 lines 49-54]. Specifically, Raghavan et al. teach determining whether the one of the partition is bootable or not [206 fig. 4a].

At the time of the invention was made, it would have been obvious to one of ordinary skill in the art to have modified the system of Ding with the step of determining whether the one of the partition is bootable as taught by Raghavan et al. to ensure that the computer system is successfully booting to a know state.

The motivation would have been to prevent the computer system from booting to unknown state in the event that the selected partition is corrupts or damage.

6.   As per claim 2, Ding teaches the selecting the multi-partition boot selection flag is performed by an embedded controller in the computer [col. 2 lines 51-56; col. 5 lines 65-67].

7.   As per claim 3, Ding teach the selecting the multi-partition boot selection flag is performed by a keyboard controller in the computer [fig. 3B].

8.   As per claim 5, Ding teaches the setting the multi-partition boot selection flag is

performed by an embedded controller in the computer [col. 5 lines 64-67].

9.   As per claim 6, Ding teaches the setting the multi-partition boot selection flag is

performed by a keyboard controller in the computer [fig. 3B].

10.   As per claim 8, Ding teaches the multi-partition boot selection flag is stored in a memory

in the computer [from col. 6 line 53 to col. 7 line 9];

11.   As per claim 9, Ding teaches the multi-partition boot selection flag is stored in a register

in the computer [inherent].

12.   Claims 1, 4-5, 7-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over

Khanna U.S. Patent 6,550,006 in view of Raghavan et al.

13.   As per claim 1, Khanna discloses a selectable booting operation method by a BIOS with

multi-partition in disk which comprising a plurality of partitions [542 fig. 1], comprising:

        turning on a power of a computer [202 fig. 2];

        initializing a plurality of hardware components in the computer [204 fig. 2];

        executing an interrupt service program [inherent];

        reading a MRB in the disk [206 fig. 2];

        setting a multi-partition boot selection flag [226 fig. 2];

selecting one of the partitions by using the multi-partition boot selection flag; [214 fig. 2; col. 5 lines 32-35]; and

reading a boot sector in the one of the partitions to boot the computer [214 fig. 2],.

However, Khanna does not explicitly teach determining whether the one of the partitions is bootable or not.

Raghavan et al. teach another method for booting a computer system to a know state at system start-up wherein the system comprising a hard disk with at least two partition, each containing a different or may be the same copy of a system image [col. 2 lines 38-40; col. 9 lines 49-54]. Specifically, Raghavan et al. teach determining whether the one of the partition is bootable or not [206 fig. 4a].

At the time of the invention was made, it would have been obvious to one of ordinary skill in the art to have modified the system of Khanna with the step of determining whether the one of the partition is bootable as taught by Raghavan et al. to ensure that the computer system is successfully booting to a know state.

The motivation would have been to prevent the computer system from booting to an unknown state in the event that the selected partition is corrupts or damage.

14.   As per claim 4, Khanna teaches selecting the multi-partition boot selection flag is performed by a remote controller [col. 1 lines 48-60].

15.   As per claim 5, Khanna teaches the setting the multi-partition boot selection flag is performed by an embedded controller in the computer [from col. 4 line 66 to col. 5 line 2];

16.   As per claim 7, Khanna teaches the setting the multi-partition boot selection flag is performed by a remote controller [col. 1 lines 48-60].

17.   As per claim 8, Khanna teaches the multi-partition boot selection flag is stored in a memory in the computer [511 fig. 1].

18.   As per claim 9, Khanna teaches the multi-partition boot selection flag is stored in a register in the computer [col. 5 lines 10-12].

19.   As per claim 10, Raghavan et al. teach wherein when the one of the partitions is not bootable, a boot fail message is displayed [282 fig 5].

20.   As per claim 11, Raghavan et al. teach wherein when the one of the partitions is not bootable, a default partition is the disk set by the BIOS is read [206 fig. 4a to 232 fig. 4b].

21.   As per claim 12, Raghavan et al. teach when the default partition is bootable, a boot sector in the default partition is read so as to boot the computer [232-244 fig. 4b].

22.   As per claim 13, Raghavan et al. teach when the default partition is not bootable, a boot fail message is displayed [282 fig. 5].

23.   As per claim 14, Official Notice has taken the INT 19H interrupt is a well know BIOS

routine which causes the boot sector from the boot device such as a hard drive, to be read into the
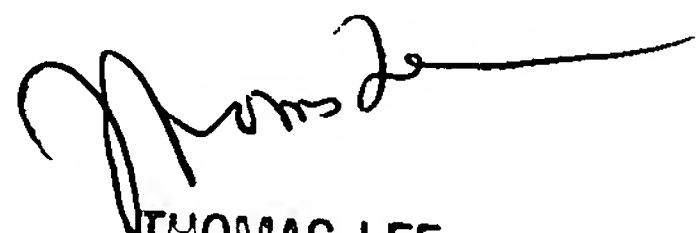
memory.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Vincent T. Tran whose telephone number is (571) 272-7210. The

examiner can normally be reached on 7:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Thomas c. Lee can be reached on (57 1)272-3667. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Vincent Tran

THOMAS LEE
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100